

PROMOTIONAL PRODUCT DESCRIPTIONS

OS/2 Warp Server Version 4

25 Word Description

OS/2 Warp Server provides an application server foundation with integrated file and print sharing, systems management, backup and recover, remote connection, and LAN Internet access.

50 Word Description

OS/2 Warp Server is a complete network operating system that provides an application server foundation with integrated file and print sharing, backup and recovery, remote connection, systems management, and LAN Internet access.

Its flexible installation allows you to install one feature, or all features, and it supports almost every client and server system on the market today.

100 Word Description

OS/2 Warp Server is a complete network operating system that has the functions and features you need for an advanced application server platform. It's a perfect fit for small and medium-sized businesses, departmental workgroups, or large corporations and institutions.

OS/2 Warp Server provides an application server foundation with integrated file and print sharing, sophisticated yet easy-to-use systems management, backup and recovery, remote connection, advanced printing, and LAN Internet access.

OS/2 Warp Server is built on the 32-bit, pre-emptive, multi-tasking capabilities of OS/2 Warp, which means you get a stable operating system that supports more clients than any other server — OS/2, DOS, Windows (3.x, NT, WFW, Win95), and Macintosh.

OS/2 Warp Server Advanced Version 4

25 Word Description

OS/2 Warp Server Advanced provides an application server foundation with systems management, backup and recovery, advanced printing, remote connection, LAN Internet access — plus, higher performance for file and print sharing and Lotus Notes usage.

50 Word Description

OS/2 Warp Server Advanced, a complete network operating system provides an application server foundation integrated with systems management, backup and recovery, advanced printing, remote connection, and LAN Internet access — plus higher performance for file and print sharing and Lotus Notes usage that supports up to 1000 users on a single server.

100 Word Description

OS/2 Warp Server Advanced is a complete network operating system that has the functions and features you need for an advanced application server platform. It's a perfect fit for small and medium-sized businesses, departmental workgroups, or large corporations and institutions.

With OS/2 Warp Server Advanced, you get all the features of OS/2 Warp Server — an application server foundation with systems management, backup and recovery, remote connection, advanced printing, and LAN Internet access — plus, higher performance for file and print sharing and Lotus Notes usage that supports up to 1000 users on a single server.

It supports more clients than any other server — OS/2, DOS, Windows (3.x, NT, WFW, Win95), and Macintosh.

OS/2 Warp Server



ADVERTISING/MEDIA PLANS

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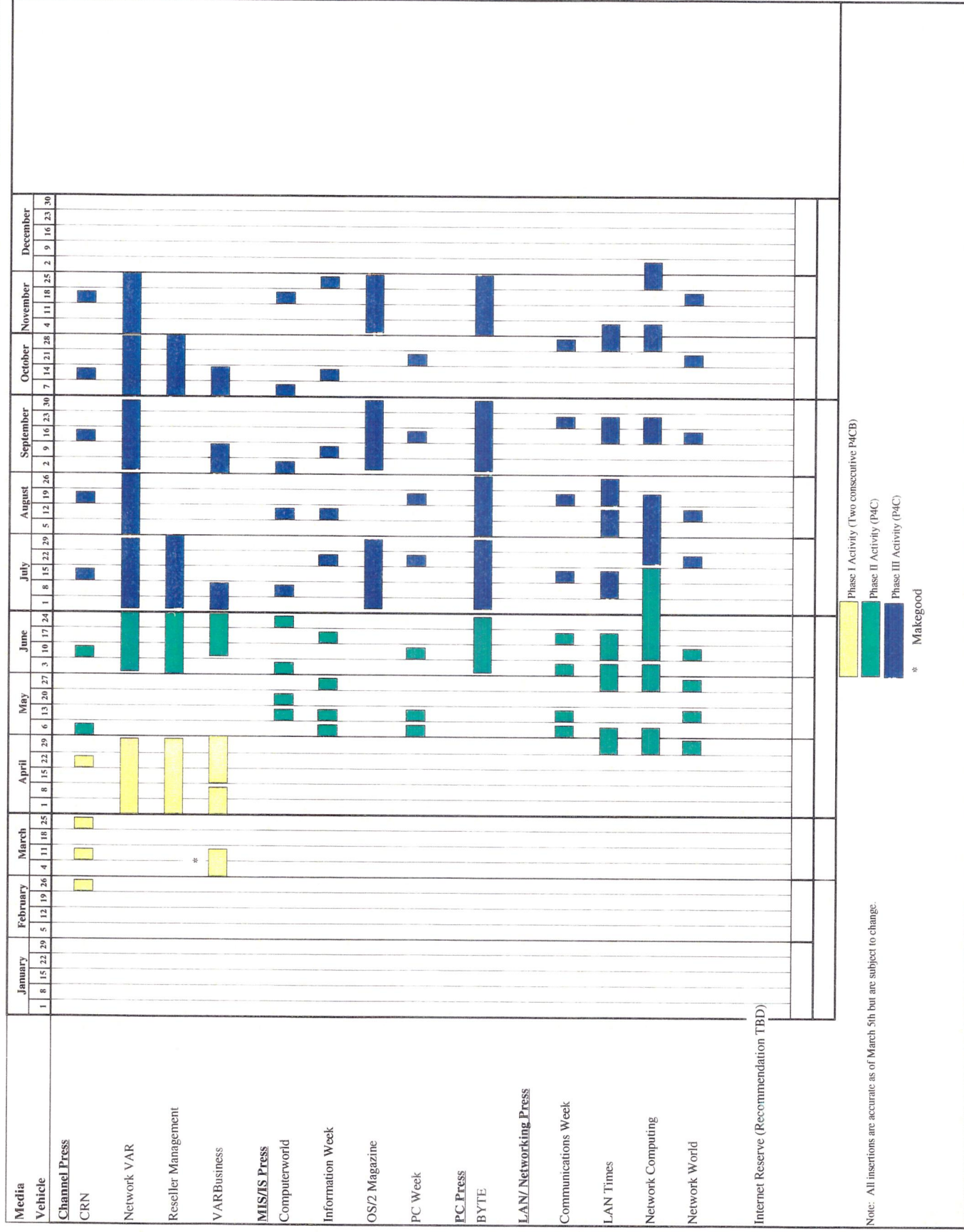
IBM Software

1996 Strategic Media Flowchart

Recommendation

Product: OS/2 Warp Server
Division: PSP

Region: North America
Country: US



IBM Announces Availability of OS/2 Warp Server

So Much Ability Packed Into a Single Package

SAN FRANCISCO, February 26, 1996... IBM's OS/2* Warp Server Version 4 was announced as immediately available today at an Olympic-themed launch event that compared the many strengths of an Olympic decathlete with the broad range of features in IBM's new server operating system. OS/2 Warp Server is IBM's one-box server operating system solution for small- and medium-sized businesses to large enterprises.

"Nowhere else in today's market will you find a more powerful, reliable and feature-rich PC server operating system," said John W. Thompson, general manager, IBM Personal Software Products. "OS/2 Warp Server will strengthen the OS/2 family of products across the board by expanding our reach into markets where we have the potential for considerable growth."

OS/2 Warp Server combines a foundation for application serving with integrated file and print sharing, and offers an easy-to-use graphical user interface for drag-and-drop administration. Features such as systems management, backup and recovery, remote access, enhanced TCP/IP support, advanced print function and LAN Internet access are all integrated into the product, eliminating the time and cost of having to separately install each component. Furthermore, because each of these features can be installed selectively, users are able to configure OS/2 Warp Server to meet the needs of their business.

"From the drag-and-drop user interface to the automatic install to its integrated systems management, OS/2 Warp Server has it all," said Bill Howey, senior systems consultant at AVCO Financial Services Corp. "No other competitor can touch what IBM has done with this product -- it will certainly make my job a lot easier."

"With OS/2 Warp Server, IBM has created an integrated set of seamless, 'open' network and operating system services, rather than a shopping list of 'suite' services," said Frank Dzubeck, president of Communications Network Architects, Inc., a computer industry consultancy. "IBM's focus on openness and compatibility with existing installed hardware and software should make OS/2 Warp Server a significant competitor in the marketplace."

Later this year, IBM will announce its Directory and Security Server (DSS), which customers can add onto OS/2 Warp Server to gain a global directory service, which facilitates management of complex networks, and security services to protect vital user information such as passwords. This combination will further separate OS/2 Warp Server from the competition.

"OS/2 Warp Server, which quickly and easily implements enterprise computing, will be of particular benefit to SAS Institute's customers," said Allen Watson, SAS Institute's marketing manager. "As a long-time provider of integrated, portable business analysis software, we believe IBM offers businesses of all sizes an integrated platform for complete business solutions."

"HP is excited about the new features and usability of IBM's OS/2 Warp Server," said Scott J. Stallard, general manager of HP's Network Server Division. "HP NetServers deliver unparalleled manageability, availability and performance and, when joined with IBM's new feature-rich server operating system, the combination delivers a powerful computing platform."

Broad Network Client Support

OS/2 Warp Server supports all prevalent network clients, including OS/2 Warp, OS/2 Warp Connect, DOS, Windows* 3.x, Windows NT Workstation, Windows for Workgroups and Windows 95. Macintosh* clients are supported via IBM's LAN Server for Macintosh add-on product and AIX* clients are supported via IBM's PC Connection product, both available separately. OS/2 Warp Server is backward-compatible with previous IBM LAN Server clients and supports gateway functionality to Novell Netware* and Microsoft NT and LAN Manager servers, allowing OS/2 Warp Server clients to access non-OS/2 Warp Server resources.

A Ready-to-Sell Solution for Value-Added Resellers

OS/2 Warp Server is an excellent product for resellers and VARs. Because all components are integrated and tested to work together, VARs are saved valuable time and expense and are able to sell a complete server solution in one package. Furthermore, OS/2 Warp Server includes all of the network management functions VARs need to support their customers remotely.

"From a reseller's point of view, OS/2 Warp Server is a breath of fresh air. IBM has packed so much into one product, it will be very easy for us to sell," said Richard Spurlock, vice president of Starfire Engineering and Technologies, Inc., a Lawrence, Kan. VAR and a member of IBM's BESTeam** program. "And with features like remote control and on-screen alerts, we'll be able to keep our customers' networks running smoothly without even having to leave our office."

Get Certified: The OS/2 Warp Server Advantage Program

Gaining the skills needed to install and manage an OS/2 Warp Server network is a true advantage for IT professionals, resellers and VARs. The OS/2 Warp Server Advantage program consists of three exams and ensures that candidates acquire the skills to successfully implement a solution based on IBM's Network-Centric Computing model.

For networking professionals already skilled in network operating system technology, the path to OS/2 Warp Server certification is simplified. By passing a single exam, Certified Novell Engineers (CNEs) are able to broaden their networking expertise and become certified on OS/2 Warp Server. IBM LAN Server Engineers (or Experts) certified on LAN Server 3.x or 4.x may upgrade to OS/2 Warp Server certification by passing only one exam. IBM will also offer an exam for LAN administrators.

Pricing and Packaging

OS/2 Warp Server is available in two versions: OS/2 Warp Server Version 4, which includes all of the features already mentioned and supports approximately 120 users for file and print sharing and 1,000 users for application serving; and OS/2 Warp Server Advanced Version 4, which includes the same features, plus fault tolerance (disk mirroring for two disk drives and disk duplexing for two controllers), enhanced Pentium optimization and user disk limits. The Advanced version includes High Performance File System for higher performance file and print sharing and Lotus Notes usage, and supports up to 1,000 users on a single server.

The suggested retail price for OS/2 Warp Server Version 4 is \$629, and \$1,299 for OS/2 Warp Server Advanced Version 4. Reseller prices may vary. There will be special pricing available for customers upgrading from LAN Server 3.x and 4.x and competitive products. A package geared for retail, the OS/2 Warp Server First Step, includes OS/2 Warp Server plus 10 licensed client connections. The First Step product has a suggested retail price of \$829. IBM is also offering a new client licensing model called Use-Based Features, in which individual client connections may be purchased from IBM for \$49 each.

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** IBM's BESTeam is an award-winning reseller program combining IBM software products, professional certification and training, marketing programs and enhanced technical support. BESTeam membership grew 300 percent in 1995. For more information on BESTeam, call 1-800-IBM-1822.

Press Release

IBM's OS/2 Warp Server to Support Symmetric-Multiprocessing

SAN FRANCISCO, February 26, 1996...IBM today announced that it has begun alpha testing its OS/2* Warp Server Version 4 symmetric-multiprocessing (SMP) feature, and demonstrated it today on a four-way SMP system at the OS/2 Warp Server launch event. An open beta program is planned to begin in the second quarter of 1996, with general availability intended for the third quarter of the year. The OS/2 Warp Server SMP feature will be provided as a free upgrade to OS/2 Warp Server Version 4 customers.

"SMP exploitation will add support of the largest PC servers to OS/2 Warp Server, which we believe already delivers the most functionality into a server operating system solution," said Art Olbert, director of product plan management, IBM Personal Software Products. We expect to significantly enhance the performance of our current OS/2 2.11 SMP offering with the OS/2 Warp Server SMP feature."

IBM is currently conducting an OS/2 Warp Server SMP alpha program with about a dozen business partners, including Oracle Corp., Sybase Inc., Btrieve Technologies Inc., Lotus Development Corp., Compaq Computer Corp., Hewlett-Packard Co. and Unisys Corp., all of which have agreed to support IBM in development of the OS/2 Warp Server SMP feature with their respective products.

Industry Support for the OS/2 Warp Server SMP Feature

"We have had many strong customer successes with Sybase products on OS/2," said Berl Hartman, Sybase vice president of strategic marketing. "OS/2 Warp Server will provide a strong growth path for these loyal customers with applications requiring SMP class solutions."

"At Btrieve Technologies, our developers are specifically architecting Btrieve for OS/2 Warp Server to take advantage of the performance benefits to be offered by OS/2 Warp Server's SMP capabilities," said Kristin Burkland, director of business development.

"We support and are working with IBM on optimizing the performance of OS/2 Warp Server SMP using Oracle," said Jerry Baker, senior vice president of Oracle's Product and Platform Technologies.

"SMP will be a terrific addition to an already great offering from IBM," said Josh Airall, systems analyst at Cincinnati Bell Information Systems. "I've been extremely pleased with OS/2 Warp Server and I'll be happy to get my hands on the SMP-enablement feature."

IBM has long been a leader in the development of SMP technology, which greatly enhances computing performance and increases productivity. IBM currently offers SMP support for OS/2 v. 2.11 as well as AIX*, High Availability Management Clustering Program and SPX.

OS/2 Warp Server: The Complete Business Solution

Now generally available, OS/2 Warp Server is IBM's business server solution for customers ranging from small businesses to large enterprises. It provides a foundation for application serving and file and print sharing, plus a wealth of integrated features including system management, backup and recovery, remote access, enhanced TCP/IP support, advanced print function, and LAN Internet access.

* OS/2 and AIX are registered trademarks of IBM Corp.

Press Release

"IBM Adds TCP/IP and Backup Features to OS/2 Warp Server"

AUSTIN, Texas, IBM News Release, November 13, 1995... " IBM today announced it will add new TCP/IP network administration features and backup services to the OS/2 Warp Server product, currently in beta. The TCP/IP network features, collectively called Dynamic IP, include unique addressing capabilities and greatly simplified administration, while the backup services will provide the ability to backup Novell NetWare and Microsoft Windows NT servers. The Dynamic IP and backup services will be included in the OS/2 Warp Server product when it ships in the first quarter of 1996.

Dynamic IP combines Dynamic Host Configuration Protocol (DHCP) and Dynamic Domain Name System (Dynamic DNS), enabling computers to automatically access a network and streamlining network configuration for system administrators. DHCP centralizes network configuration information, including IP addresses and application parameters such as web browsers and news readers. It also distributes the information to computers based on location or defined user groups, such as accounting or marketing departments.

Dynamic DNS enables workstations to automatically and securely maintain their host name information, including DHCP-assigned addresses, eliminating the current need for administrators to manually create and maintain this information. To further support open industry standards, IBM has submitted DDNS to the Internet Engineering Task Force as a model for open DNS implementation.

"Dynamic IP solves problems that network administrators live with every day," said Phil Powers, director of marketing for LAN Systems, IBM Personal Software Products. "Because OS/2 Warp Server is the first server operating system to promote an open Dynamic DNS standard, we are leading the way in helping customers solve a traditional network TCP/IP issue. We believe the inclusion of these features will further establish Warp Server as the premier server operating system."

Simplification of Access and Administration of TCP/IP Networks

Typically, network administrators must assign network IP addresses and maintain host names as individual computers and constantly track changes every time a computer is either added, removed or relocated in the network. Dynamic IP workstations (computers with Dynamic IP client software installed) automatically configure themselves and securely update their host name information. As a result, no user or administrator intervention is required to configure computers for network access.

Dynamic IP centralizes network configuration and distributes changes to computers on the network. This greatly assists network administrators in managing network changes and eliminates the process of manually reconfiguring individual computers. The features also save time and energy, and avoid costly disruptions to network operations.

Dynamic IP is also especially well-suited for laptops and other mobile computers that frequently reconnect to the network at different locations. Because Dynamic IP hosts are automatically configured based on their location, administrators can provide customized, location-sensitive information to mobile computers as they reconnect at various sites on the network.

Backup Services

The new enhanced backup and recovery services allow OS/2 Warp Server to backup any information on the server to other servers on the local area network, including Novell NetWare and Windows NT. In addition, the local backup capability of OS/2 Warp Server spans from tape and optical to disk and diskette, unlike Windows NT which only backup locally to tape.

This new feature further enhances the existing backup capabilities of OS/2 Warp Server which include the ADSTAR* Distributed Storage Manager (ADSM) client, a hierarchical storage manager for heterogeneous environments. With appropriate ADSM software installed on mini and mainframes, OS/2 Warp Server information can be backed up to multiplatforms including OS/2, AS400*, MVS/VM*, AIX*, Sun, Hewlett-Packard and Digital Equipment Corporation.

"We understand that many of our customers work in a multiplatform environment," added Powers. "With the enhanced backup services now included in Warp Server, we offer the most comprehensive backup capabilities from standalone to virtually any server platform."

Following on the heels of OS/2 Warp Connect, IBM's network client operating system, OS/2 Warp Server combines the market-proven quality of OS/2 Warp and LAN Server 4.0 with a wealth of functional enhancements in system management, remote and advanced printing function. Services such as file and print can be selectively installed, allowing users to customize OS/2 Warp Server to meet their needs. OS/2 Warp Server has been distributed to more than 12,000 beta testers worldwide and the final product is expected to ship in the first quarter of 1996.

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Press Release

IBM Announces Distribution of 12,000 Copies of OS/2 Warp Server Beta

AUSTIN, Texas, September 26, 1995 ... Between August 28 and September 15, IBM distributed 12,000 copies of the beta version of OS/2 Warp Server to testers worldwide, making it the largest beta program for any IBM Personal Software Products server product. The beta is receiving outstanding initial response from testers, including customers, analysts, VARs, system integrators and consultants.

"I was using NT 3.5 on my server but was not impressed. It dumps people off the network and its interface is not truly object-oriented. Neither is Windows 95. It's clumsy and unstable," said Christopher McCarthy, software development manager at Gemmac, Inc. "When I heard that OS/2 Warp Server was coming out, I decided to try it. Its interface is more intuitive and so far everything is running just the way I had hoped. I don't plan on switching back to NT."

The OS/2 Warp Server beta has also been made available to IBM Business Enterprise Solutions Team (BESTeam) members. It is the first time that BESTeam members have been actively included in a broad-scale beta program. BESTeam is IBM's desktop software recruitment and support program for value added resellers, network integrators, and consultants.

"OS/2 Warp Server is going to make IBM even more competitive in the market," said Bill Allred, vice president and national sales director of Compu Electronics, a mid-size VAR and BESTeam member. "In its integration of OS/2 Warp and tried-and-true LAN Server 4.0, Warp Server offers a complete network operating system that leapfrogs any in the marketplace today."

"We couldn't be more thrilled about the OS/2 Warp Server beta program," said Phil Powers, director of marketing for LAN Systems, IBM Personal Software Products. "We have shipped twice as many beta copies as originally planned for this timeframe and are receiving high praise from large and small business beta testers and from resellers and industry analysts."

OS/2 Warp Server is IBM's business server solution for customers ranging from small businesses to large enterprises. It provides an integrated platform for the growing application server environment as well as a complete set of traditional file and print services by combining the battle-tested OS/2 Warp and LAN Server 4.0 with a wealth of functional enhancements in system management, backup, remote access and advanced print function. OS/2 Warp Server also supports multiple clients including OS/2 Warp, DOS, Windows 3.x, Windows** 95, and Windows NT.

"I believe that Warp Server has great potential in the market," said R.J. Sakakeeney, director of field research at the Aberdeen Group. "Based on this beta and the product road map I've seen, it appears that Warp Server will provide a great platform for both the file and print and growing application server arena."

Other beta tester reactions include:

- "IBM has done it! The automatic installation in OS/2 Warp Server makes it easy for a LAN administrator to start the installation, walk away to do other things, and come back to find everything installed," said Bill Howey, senior systems consultant at AVCO Financial Services Corp. "It has the best GUI tools for a network administrator."

- "I'm impressed that such an industrial-strength, high-end tool is being brought down to the user level," said Keith Grey. "I like the progress I've seen over the past two years, advancing a top-to-bottom and horizontal-to-vertical vision to make things work together on open systems. It's what I'm banking on professionally and personally as the way to go."
- "I'm very impressed with the installation routine. It's the easiest installation I've done with an OS/2 product," said Jason Jeremias with a Big Six accounting firm. "I'm also surprised this is a beta version, it seems very stable."

Following on the heels of OS/2 Warp Connect, IBM's network client operating system, OS/2 Warp Server complements IBM's family of scalable network solutions to meet any size customer need. Now in beta cycle, OS/2 Warp Server is expected to be generally available in the first quarter of 1996.

* Registered trademark of IBM Corp.

** Registered trademark of Microsoft Corp.

*** Registered trademark, licensed exclusively through X/Open Company Limited

Press Release

IBM OS/2 Warp Server Beta Available to Channel Partners Sept. 18, 1995

AUSTIN, Texas, Sept. 18, 1995...IBM announced today availability of the beta version of OS/2 Warp Server to IBM Business Enterprise Solutions Team (BESTeam) members. The BESTeam members can also receive OS/2* Warp Server training at the NetWorld + Interop tradeshow in Atlanta on Thursday, September 28. The beta program allows BESTeam members to become familiar with the latest member of the OS/2 Warp family, which can increase their range of business solutions.

"Clearly, our channel partners will play a significant role in the success of the OS/2 Warp Server product," said Phil Powers, director of marketing, LAN systems. "This offering will allow our BESTeam channel partners to be OS/2 Warp Server experts before the final product is released."

IBM is making the OS/2 Warp Server beta available to thousands of BESTeam members around the world. The inclusion of the BESTeam members could raise the OS/2 Warp Server beta program to more than 12,000 testers.

OS/2 Warp Server Beta Training

BESTeam members will also have the opportunity to preview the OS/2 Warp Server beta at IBM's free hands-on training in a 4-hour session held at the NetWorld + Interop tradeshow (Sept. 25-29). The training will be open to BESTeam members, LSEs (LAN Server Engineers**) and OSEs (OS/2 Server Engineers).

Computers will be available for participants to spend approximately 1 1/2 hours familiarizing themselves with the new software. The remaining time will be spent reviewing competitive data regarding the features and functions of OS/2 Warp Server vs. Windows NT.

About the BESTeam

BESTeam is IBM's desktop software recruitment and support program for Value Added Resellers, Network Integrators and consultants. BESTeam members receive access to strategic software solutions, professional certification, industry-leading marketing programs, and enhanced technical support. BESTeam programs help its members compete more effectively in the rapidly growing software services marketplace.

The Complete Business Solution

OS/2 Warp Server is IBM's business server solution for customers ranging from small businesses to large enterprises. It provides an integrated platform for the growing application server environment as well as a complete set of traditional file and print services by combining the battle-tested OS/2 Warp and LAN Server 4.0 with a wealth of functional enhancements in system management, backup, remote access, and advanced print function.

Now in beta cycle, OS/2 Warp Server is expected to be generally available in the first quarter of 1996. BESTeam members in the United States can receive the beta package by calling 1-800-IBM-1822. Outside the U.S., BESTeam members should contact their local BESTeam administrative office. Pricing for the final product has yet to be determined. There will be an upgrade program for LAN Server users.

* Indicates trademark or registered trademark of the IBM Corp.

** Certain jurisdictions regulate the use of the title "engineer" and impose additional academic and licensing requirements. In these jurisdictions, the title "expert" should be used.

Press Release

IBM's OS/2 Warp Server to Support Enhanced Windows 95 Client

AUSTIN, Texas, Sept. 12, 1995... IBM today announced an enhanced Windows* 95 client for OS/2** Warp Server, now in beta testing, and OS/2 LAN Server 4.0. The enhanced client, which will ship in the box with OS/2 Warp Server, expands the capabilities of Windows 95 users on an OS/2 Warp Server network and provides full access to the wealth of systems management features in OS/2 Warp Server. In addition to Windows 95 clients, OS/2 Warp Server supports OS/2 Warp, OS/2 Warp Connect, DOS, Windows 3.x, Windows NT, and Macintosh clients.

"Enhancing the capabilities of Windows 95 clients creates an open, heterogeneous client/server environment which we believe will make OS/2 Warp Server the premier server platform in the industry today," said Phil Powers, director of marketing for LAN Systems, IBM Personal Software Products. "This broadening of client support will raise the appeal of OS/2 Warp Server to our target customers, which range from end users in small and large businesses to resellers, network administrators and other IS professionals."

Enhanced Windows 95 Client Function

OS/2 Warp Server's graphical user interface gives Windows 95 clients the ability to use aliases to access resources from anywhere on the network. This eliminates the need for Windows 95 clients to keep track of where on the network those resources are located. OS/2 Warp Server gives its Windows 95 clients full domain logon capability, which provides automatic logon assignments to OS/2 Warp resources. Individual home directories will also be available to Windows 95 clients. These personal directories are available to Windows 95 clients when they logon and cannot be accessed by anyone else on the network.

Extended Network Administration

OS/2 Warp Server's enhanced Windows 95 client will benefit network administrators by allowing them to manage the network from a Windows 95 client in addition to an OS/2, DOS, Windows 3.x client or the server itself. Tasks which can be done from an OS/2 client, including access control, adding and creating users, connecting the server to other servers, managing hard disk space, defining groups, managing passwords, performing network sessions, and running shared applications, can all be done from a Windows 95 client machine. Consistent with IBM's commitment to protecting customers' investments, the enhanced Windows 95 client code will support OS/2 LAN Server 4.0.

OS/2 Warp Server: The Complete Business Solution

OS/2 Warp Server is IBM's business server solution for customers ranging from small businesses to large enterprises. The product, which is in beta test, provides an integrated platform for the growing application server environment as well as a complete set of traditional file and print services. It includes the battle-tested OS/2 Warp and OS/2 LAN Server 4.0 with a wealth of functional enhancements in system management, backup, remote access and advanced print function.

OS/2 Warp Server is expected to be generally available in the first quarter of 1996. Users can enter the OS/2 Warp Server beta program by calling 1-800-393-8922. The cost of the beta is \$15.95 for shipping and handling. Pricing for the final product has yet to be determined. There will be an upgrade program for OS/2 LAN Server users.

* Windows is a registered trademark of Microsoft Corp.

** OS/2 is a registered trademark of IBM Corp.

IBM to Start OS/2 Warp Server Beta Testing

AUSTIN, TX., August 14, 1995... IBM today announced the start of public beta testing for OS/2* Warp Server, IBM's business server for customers ranging from small businesses to large enterprises. It provides an integrated platform for the emerging application server environment as well as a complete set of traditional file and print services. The software will be distributed to beta testers in the last week of August. It is expected to be generally available in the first quarter of 1996.

Following on the heels of OS/2 Warp Connect, IBM's network client operating system, OS/2 Warp Server combines the market-proven quality of OS/2 Warp and LAN Server 4.0 with a wealth of functional enhancements in system management, backup, remote access, and advanced print function. Services such as file and print can be selectively installed, allowing users to customize OS/2 Warp Server to meet their specific needs. The installation procedure also includes autodetection of devices such as network interface cards.

"OS/2 Warp Server will raise the bar on what customers and resellers should expect from a server operating system," said Phil Powers, director of marketing for LAN Systems, IBM Personal Software Products division. "We believe that OS/2 Warp Server will provide an excellent application server foundation as well as provide high performance file and print capability in a single solution. The additional integrated features will also help customers reduce the overall cost of managing their networks."

A Powerful Server...

OS/2 Warp Server inherits from LAN Server 4.0 a sophisticated set of network capabilities, including an easy-to-use drag-and-drop administration model which allows network administrators and resellers to quickly install, set up, configure, and manage a network. It offers tight security that is flexible enough to be customized to the needs of any business by assigning various privileges down to specific files on the server. OS/2 Warp Server also uses a powerful high performance file system and includes a NetWare migration utility that will allow an organization to migrate NetWare 2.x and 3.x users and information onto an OS/2 Warp Server environment using a graphical user interface.

...on a Powerful Platform...

OS/2 Warp Server possesses the same 32-bit, pre-emptive multitasking capabilities of IBM's powerful and battle-tested OS/2 Warp operating system, and comes Internet-ready with IBM's popular Internet Access Kit and WebExplorer. It offers reliable crash protection, runs OS/2 and DOS applications and contains IBM's WIN-OS2* code, which provides support for 16- and 32-bit Windows** applications.

...for Businesses of All Sizes

With sophisticated, easy-to-use networking components on a powerful operating system platform, OS/2 Warp Server will appeal to a diverse set of market segments, from small and medium sized businesses to departmental corporate workgroups to large businesses and institutions. Resellers and VARs are also an important target audience for OS/2 Warp Server. Not only do they stand to benefit from selling a complete business solution to such a broad set of users, but their job is made easier with OS/2 Warp Server's outstanding system management capabilities.

"We have had great success with IBM's OS/2 Warp and LAN Server 4.0 and we are really looking forward to the opportunity to sell OS/2 Warp Server to our customers," said Mike McKee, software manager, Intelligent Electronics. "There are a lot of businesses out there who are anxious to enter the fast-growing application server environment, and there are also a lot of businesses who just want simple file and print function until they are ready to expand OS/2 Warp Server will be an excellent solution for both."

Sophisticated Systems Management Made Easy

To address the challenges faced by today's network administrators, OS/2 Warp Server will contain systems management features which ensure a high degree of performance and reliability. With OS/2 Warp Server, administrators will be able to remotely manage computers across the network, allowing them to quickly address network issues by monitoring or even taking control of any computer on a LAN without leaving their desk.

OS/2 Warp Server provides a software and hardware discovery feature for system administrators, giving network supervisors the ability to determine the exact components of any PC on the network. System administrators will be able to determine such components as software titles, version number of programs, type of configuration, type and size of hard disk drive, amount of system memory, and network interface card. This will help administrators identify software upgrades, detect system incompatibilities and determine the need for hardware upgrade components. By having the ability to do all of this without leaving their desks, administrators will be able to manage their systems much more easily and efficiently, reducing the cost of LAN management.

As a preventive measure, on-screen alerts built into OS/2 Warp Server will warn administrators of predictive hardware failures such as low disk space and exceeding the CPU threshold. This is an added benefit to resellers because it helps them avoid potential customer satisfaction problems.

Carefree System Backup and Recovery

Reliable protection from data loss is vital for any business employing a network. IBM has implemented a comprehensive backup and recovery system in OS/2 Warp Server that eliminates the worry. Utilizing object-oriented administration and an intuitive interface, OS/2 Warp Server offers an easy-to-use, yet sophisticated, backup solution.

OS/2 Warp Server users will be able to schedule full or partial data backups to a variety of media formats including diskette, tape, and optical drives. An advanced disaster recovery feature is included that will allow a business to recover vital data, even in the event of a complete server hard disk crash. Users will also have the unique ability to load tape backups and restore information to the network without loading the core operating system, allowing them to easily and painlessly recover data and get their business up and running again very quickly.

This integrated backup facility is also compatible with IBM's Automated Data Storage Management (ADSM), which allows users to backup data to storage devices across a variety of platforms, including DEC, Hewlett-Packard and Sun, as well as IBM's AIX*, AS/400* and MVS* environments. This scalability across platforms protects investments and creates an efficient heterogeneous operating environment.

Remote Access

Remote connectivity is a need for businesses of all sizes today, and OS/2 Warp Server features a full set of remote access capabilities. With OS/2 Warp Server, organizations ranging from small businesses with two sites across town to multinational corporations can now quickly access vital information via this integrated remote functionality. With OS/2 Warp Server's remote node capability, users are able to log onto the network, upload and download data, and print documents to other facilities. Offices will be able to quickly share information by linking to their corporate network and other sites via a high speed modem line, x.25 or ISDN. Mobile users can connect to the office as though they were sitting at their desks.

In addition, OS/2 Warp Server's remote control feature reduces the cost of support. A system administrator or reseller will actually be able to see what the user sees, extending the ability to reach out and view, troubleshoot and solve network issues from across town or from thousands of miles away. Advanced Print Functionality Printing over the network is an important task for organizations of all sizes. OS/2 Warp Server includes new printing enhancements that will solve various needs for a variety of customers. With OS/2 Warp Server's postscript printer emulation, users are able to send postscript documents to non-postscript laser printers such as Hewlett-Packard and LexMark, saving them hundreds of dollars.

OS/2 Warp Server also has advanced printer functionality that is compatible with high speed host printers in a mainframe connected environment. This compatibility will greatly assist organizations by protecting their investments in high-capacity host printers. A corporate customer can easily introduce OS/2 Warp Server into the network and configure this advanced business network solution to drive 300-page-per-minute printers, saving hundreds of thousands of dollars.

Broad Client Support

OS/2 Warp Server will support all prevalent network clients, including OS/2 Warp and OS/2 Warp Connect, DOS, Windows 3.x, Windows NT, and Macintosh. OS/2 Warp Server is also backward-compatible with previous IBM LAN Server clients. This will allow OS/2 Warp Servers to be incrementally added to an existing LAN Server network and will provide the customer with complete compatibility between systems. OS/2 Warp Server also supports gateway functionality to NetWare and Microsoft servers by allowing OS/2 Warp Server clients to access non-OS/2 Warp Server resources.

Availability and Pricing

Users can enter the OS/2 Warp Server beta program by calling 1-800-393-8922 after August 28. The cost of the beta program is \$15.95 for shipping and handling. OS/2 Warp Server is expected to be generally available during the first quarter of 1996. Pricing has yet to be determined. There will be an upgrade program for LAN Server users.

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